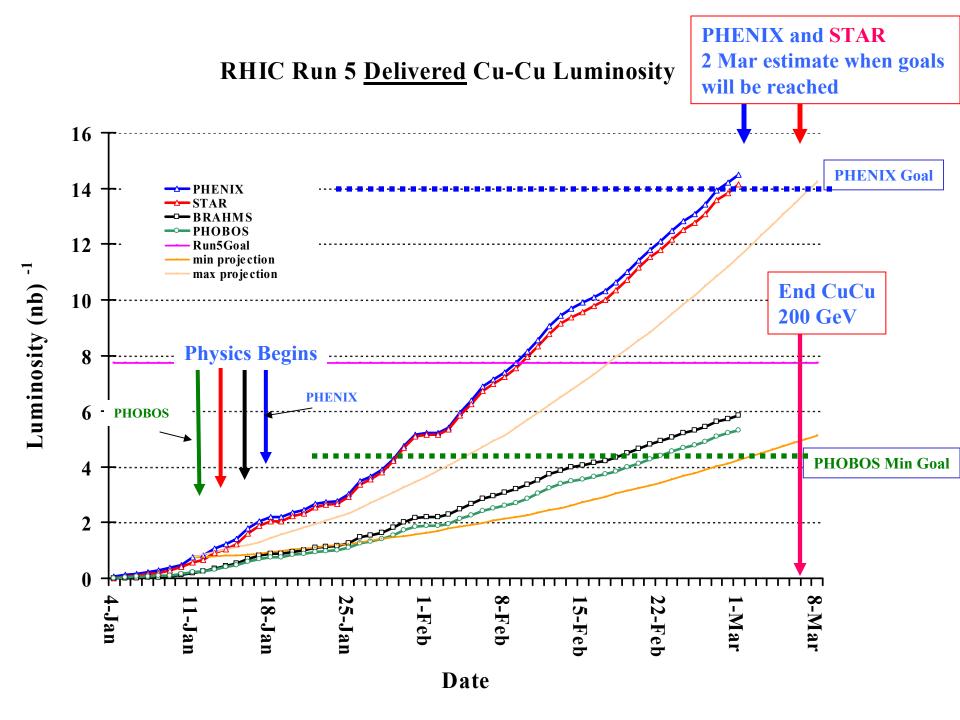
2 Mar 05

Agenda

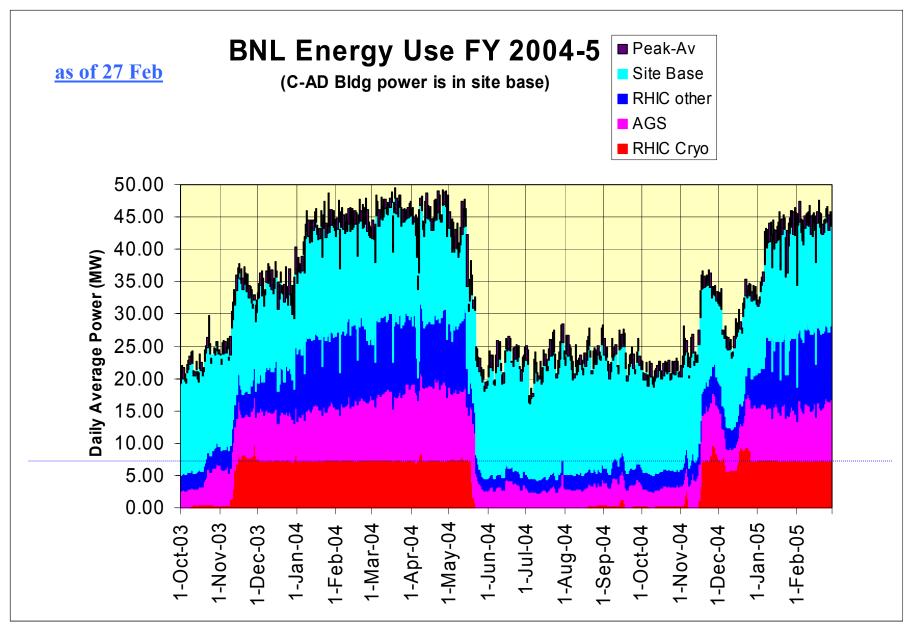
- ➤ Schedule Issues (Montag)
- > Report from experiments (STAR,PHOBOS,PHENIX,BRAHMS)
 - > Progress toward goals
 - **≻** Other
- > Report from Accelerators (Pilat)
- > Polarized Proton Update (Bai)
- > RCF Issues (Throwe)
- > Other business



- RHIC Run5 Plan (estimate based on present understanding of budget)
 - **▶ 18 Nov 04 Cool down begins**
 - **> 23 Nov 04 − Blue Ring Cold**
 - **> 28 Nov 04 − Yellow Cold**
 - ≥ 29 Nov 04 Short in D6-D8 dipoles Yellow Ring, schedule delay
 - **>** 3 Dec 04 − quad bus-bus short in sector 12, shutdown to repair
 - > 27 Dec 04 short problem resolved, rings at 4 degrees again
 - > 27 Dec 04 "2 week" RHIC setup with beam began
 - > 28-29 Dec 04 found & fixed aperture problem in Yellow Ring (Al foil)
 - > 5 Jan 05 "2 week" ramp-up with colliding beams began
 - ► 11 Jan 05 Physics with Cu-Cu began
 - > 24 Mar 05 End of 10.3 week Cu-Cu run
 - > 24-26 Mar 05 Jet Installation etc
 - ➤ 26 Mar 05 begin 3 week pp setup
 - ➤ 16 Apr 05 Begin 10.0 week pp Physics run
 - ➤ 25 Jun 05 end pp run, RHIC Run 5 ends
 - > 30 Jun 05 Cryo switch to LN₂ complete, 32.0 weeks of RHIC cryo operation ends

Details – as run/planned

```
> 11 Jan – Physics with Cu-Cu began
         > 7 Mar (0800) – end 200 GeV/n Cu-Cu
         > 7-9 Mar – Setup 62.4 GeV/n Cu-Cu
         ➤ 9-15 Mar - 62.4 GeV/n Cu-Cu Physics
         > 15 Mar – 8 hours at injection
         > 15-22 (1600) Mar - 62.4 GeV/n Cu-Cu Physics
         > 22 (1600)-24 (0800) March Cu-Cu Physics at RHIC Injection
~ finalized
         > 24 Mar (0800) – End of 10.3 week Cu-Cu run
         > 24-26 Mar 05 Jet Installation etc
         > 26 Mar – begin 3 week pp setup
         > 16 Apr – Begin 10.0 week pp Physics run
         ≥ 25 Jun – end pp run, RHIC Run 5 ends
         > 30 Jun – Cryo switch to LN<sub>2</sub> complete, 32.0 weeks of RHIC cryo
           operation ends
```



Archive

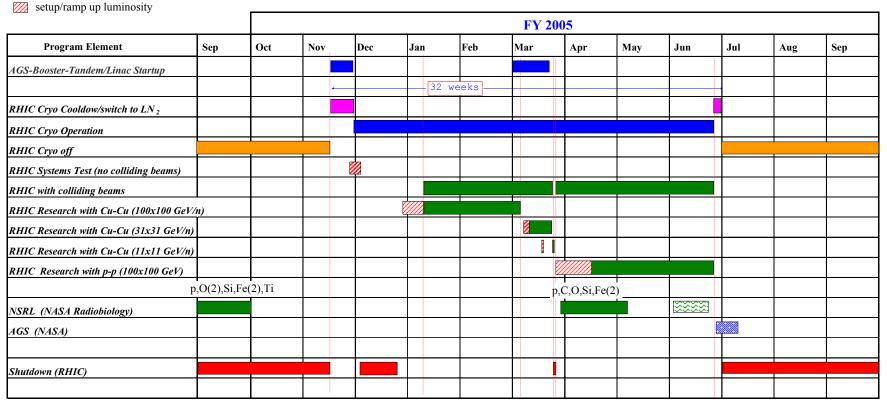
http://www.c-ad.bnl.gov/esfd

C-A Operations-FY05

22 Feb 05

pending approval/funding
schedule to be determined

Schedule - subject to change



17 November 2004

Purpose of this meeting:

■ To address issues and priorities relating to the optimization of physics output from RHIC experiments.

To discuss and promulgate policy (when needed).

17 November 2004

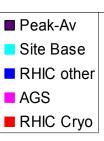
PAC Recommendations (very short summary):

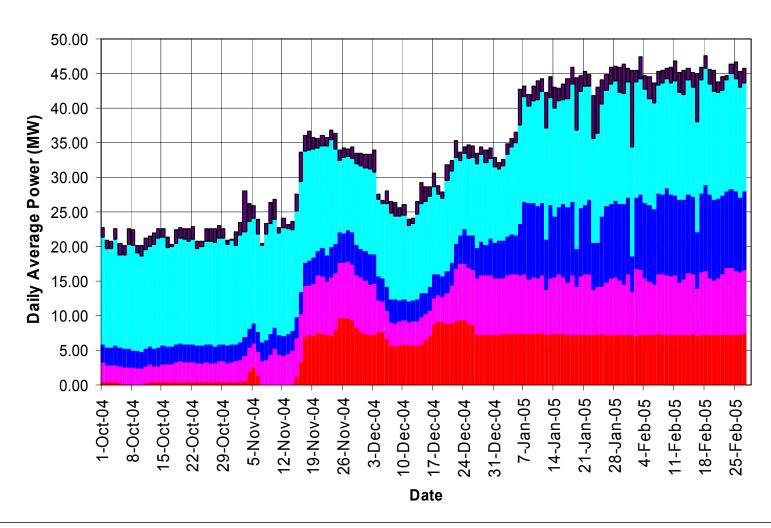
- 8-10 week pp run should have highest priority
- Cu-Cu run should accumulate an integrated delivered luminosity of at least 7 nb⁻¹ at $\sqrt{s} = 200 \text{ GeV}$
- Cu-Cu at $\sqrt{s} = 62.4$ GeV and 1 day at injection is advisable if above goals are met
- 1-2 day pp (unpolarized) run at $\sqrt{s} = 400\text{-}500 \text{ GeV}$ desirable

BNL Energy Use FY 2005

as of 27 Feb

(C-AD Bldg power is in site base)





Experiment Requests

(based on 2 Feb input from experiments)

PHOBOS

- Goal 10 nb⁻¹ Delivered Luminosity (1B events)
 - 0.4B events considered adequate (~ 4 nb⁻¹ Delivered)
 - Recorded Luminosity/Delivered ~ 25%
 - Delivered Luminosity offset (Physics start 12 Jan) = 0.2 nb^{-1}
- Prefer uptime to Luminosity development
- Strongly request 2-3 week 62.4 GeV CuCu run
- Strongly request 1 day of CuCu at injection (22.4 GeV)

PHENIX

- 7 week (to 2 Mar) CuCu 200 GeV should reach goal
 - Recorded Luminosity/Delivered ~ 24%
 - Delivered Luminosity offset (Physics start 18 Jan) = 2 nb⁻¹
 - Goal Delivered Luminosity = 12 nb⁻¹
- Prefer Luminosity development continue through ~ 11 Feb
- Request 2 week 62.4 GeV CuCu physics run (<u>very interested</u>)

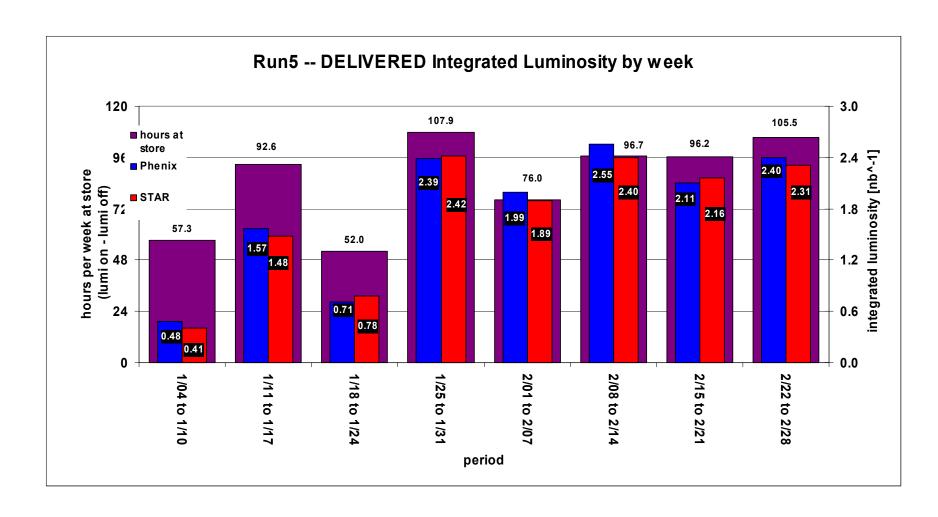
Experiment Requests

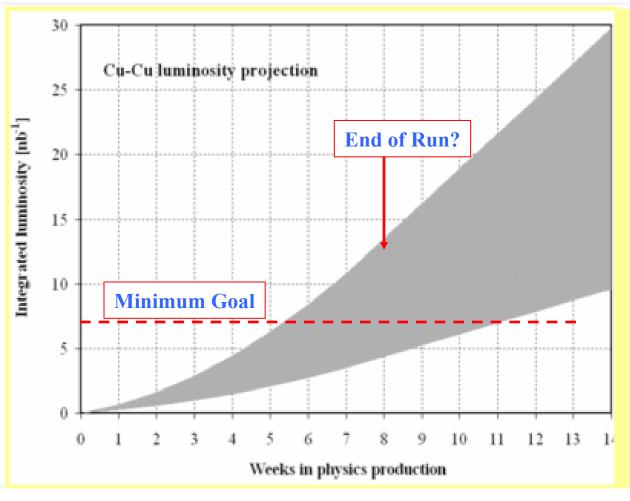
BRAHMS

- Soft Physics goal 2 nb⁻¹ Delivered
 - Recorded Luminosity/Delivered ~ 0.4
- High-pT goal 4 nb⁻¹ Delivered (runs after completion of soft physics)
 - Delivered Luminosity offset (Physics start 16 Jan) = 0.5 nb^{-1}
 - Recorded Luminosity/Delivered ~ 0.4 (?)
- Luminosity development and/or β * reduction important
- Request minimum 2 week 62.4 GeV CuCu run

STAR

- 8 week (to 7 Mar) CuCu 200 GeV assumed
 - Recorded Luminosity/Delivered not specified
 - Min-Bias Delivered Luminosity offset (Physics start 14 Jan) = 1 nb⁻¹
 - Rare Trigger Delivered Luminosity offset (Physics start 31 Jan) = 5 nb⁻¹
 - Goal Delivered Luminosity = *not specified*
 - Prefer uptime to Luminosity development
 - Request 10-14 days 62.4 GeV CuCu physics run





Projections based on the following beam intensity:

Miminum:

45 * 2.9 x10⁹

Maximum:

28 * 6.6x109

Luminosty evolution:

8 weeks ramp-up during physics production

 β * = 1 meter